

FIGURE 1 - Prior Art

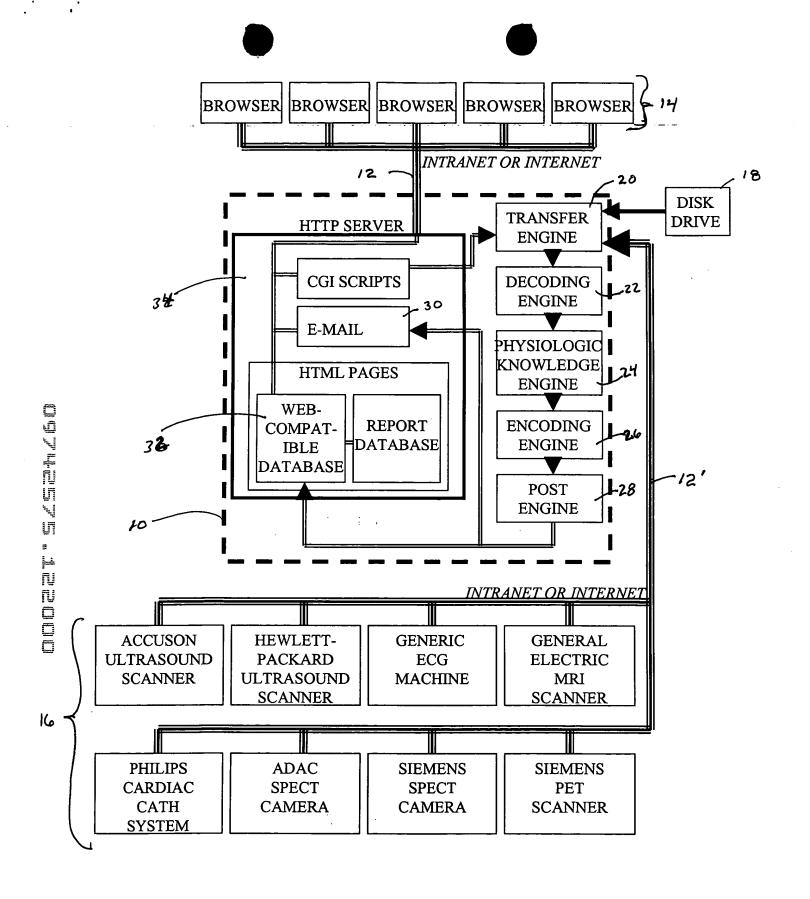


FIGURE 2

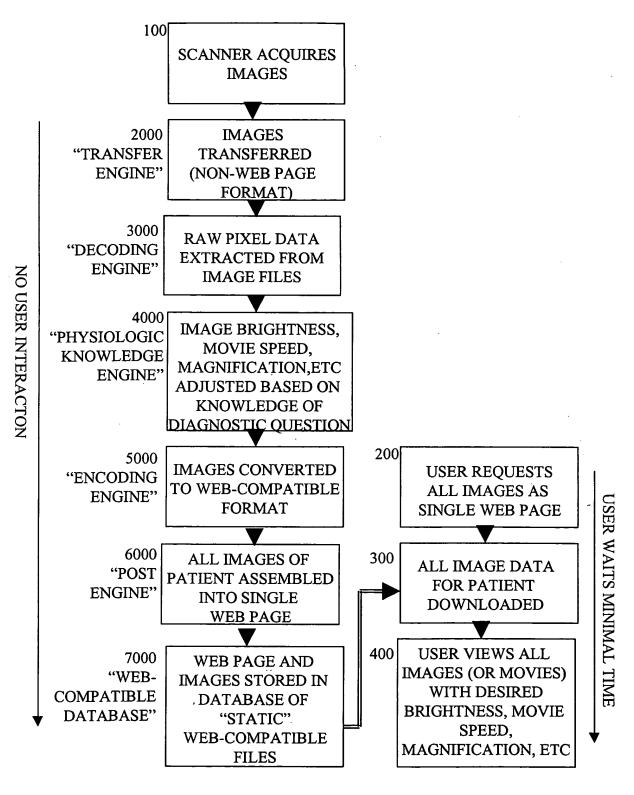


FIGURE 3 - System Overview

FIGURE 4 - STEP 2000 DETAILS ("TRANSFER ENGINE")

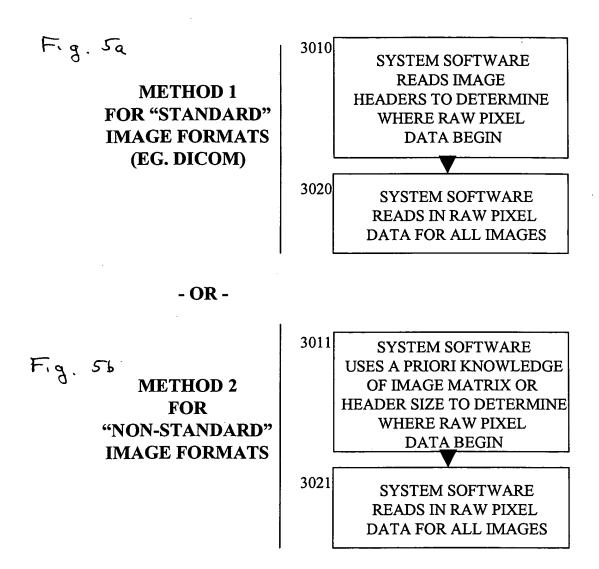


FIGURE 5 - STEP 3000 DETAILS ("DECODING ENGINE")

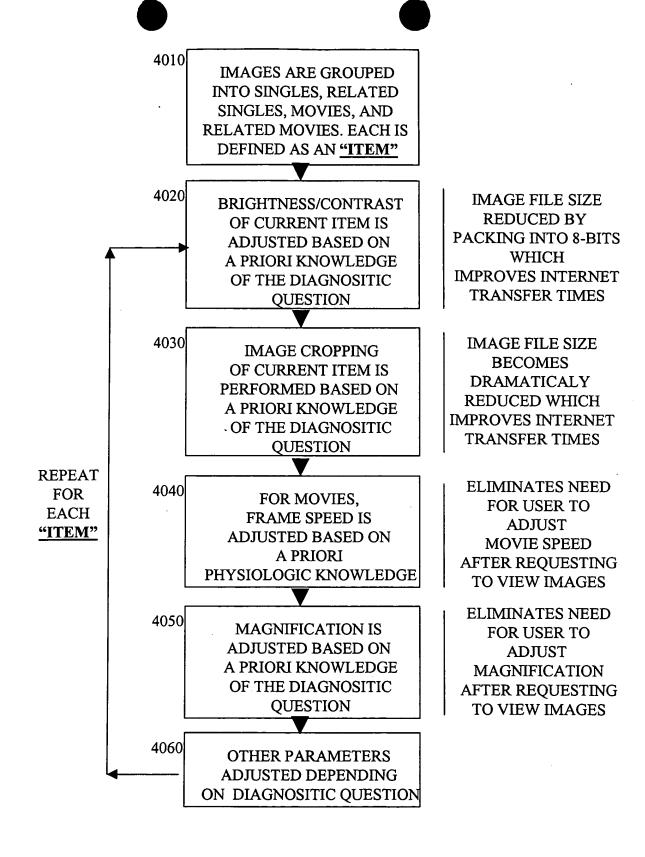


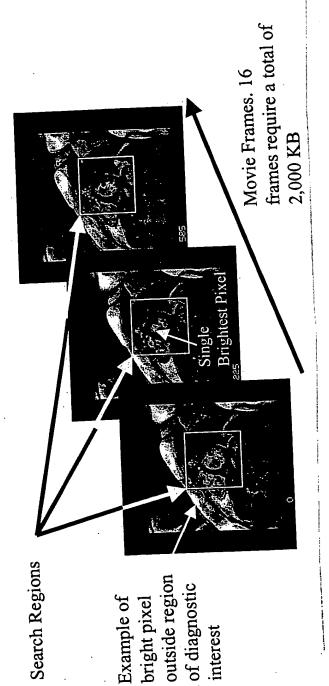
FIGURE 6 - STEP 4000 DETAILS ("PHYSIOLOGIC KNOWLEDGE ENGINE")

brightest pixel. Scale all movie frames by same amount to make single brightest STEP 4020 - Define search region as subregion within image which contains pixel equal to 2 to the 8th power minus 1, eg. 255 (1 byte/pixel, 8-bit image) the organ of interest (eg. heart) and search all movie frames for the single

STEP 4030 - Create thumbnail movies by cropping images such that only the organ of interest is shown (eg. heart). STEP 4040 - Convert all movie frames into a single movie with frame rate chosen to simulate real time motion (eg. beating heart).

STEP 4050 - Create a full-field-of-view version of each thumbnail so that user can double-click to view additional details.

F19. 7a



F19, 71

Thumbnail movie of (16 frames=100KB) Eg. STEP 4040 beating heart

Eg. STEP 4050 screen when thumbnail displayed full Full field-ofview movie clicked (16

frames=400KB)

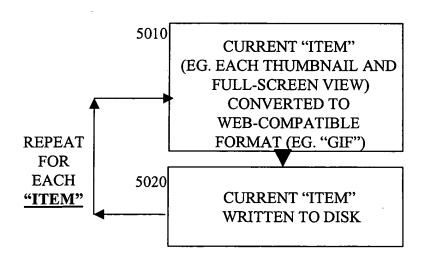


FIGURE 8 - STEP 5000 DETAILS ("ENCODING ENGINE")

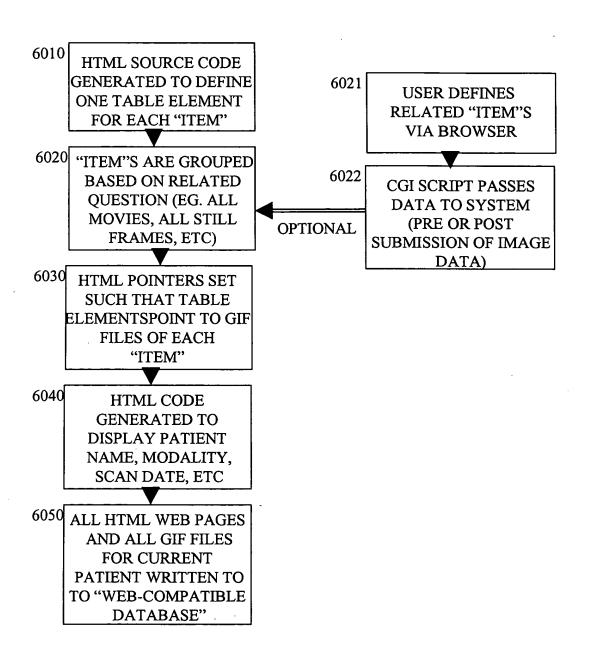


FIGURE 9 - STEP 6000 DETAILS ("POST ENGINE")

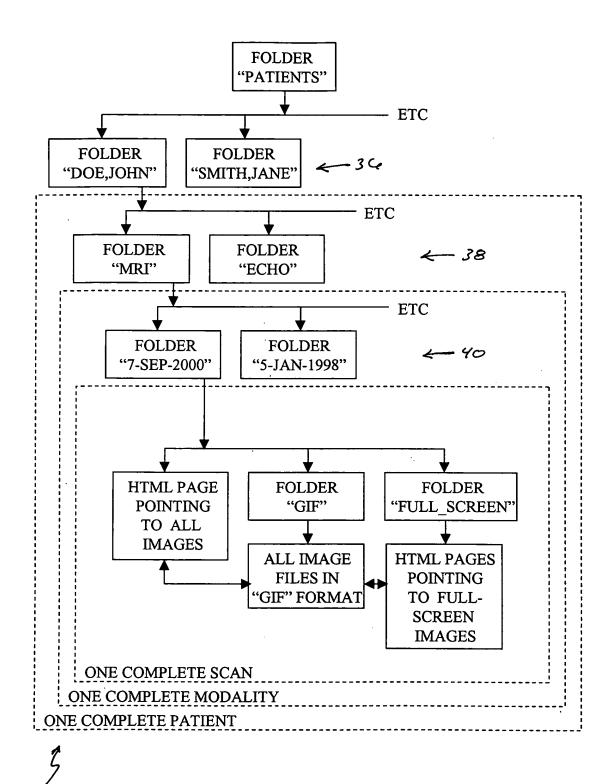


FIGURE 10 - STEP 7000 DETAILS ("WEB-COMPATIBLE DATABASE")

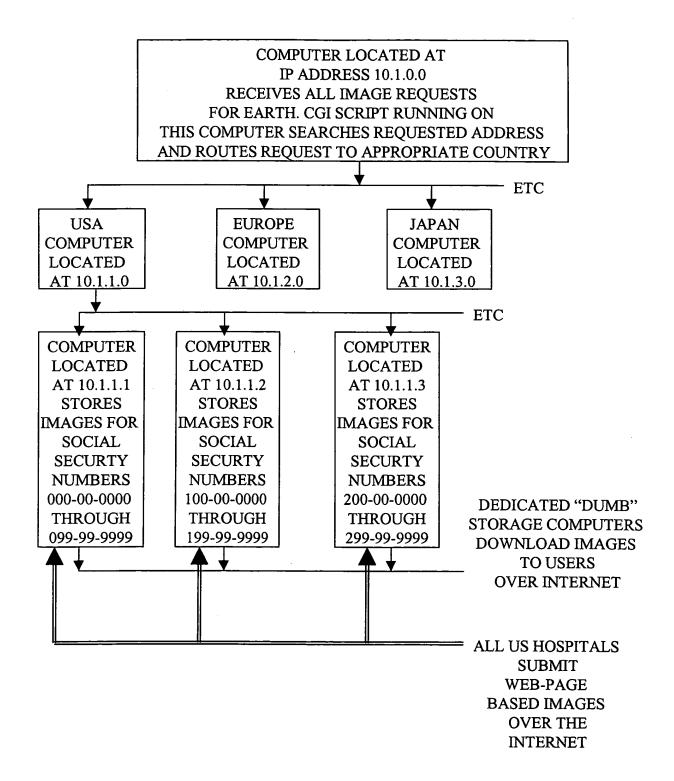


FIGURE 11 - STRUCTURE OF WORLD-WIDE DATABASE

7010

USER REQUESTS TO VIEW IMAGES AT

"http://www.imagedatabase.com/usa/123456789/mri/23sep2027"

7020

COMPUTER LOCATED AT "www.imagedatabase.com" (IP ADDRESS 10.1.0.0) SEARCHES FIELD, FINDS "usa", AND TELLS USER'S BROWSER TO FORWARD THE REQUEST TO COMPUTER LOCATED AT IP ADDRESS 10.1.1.0

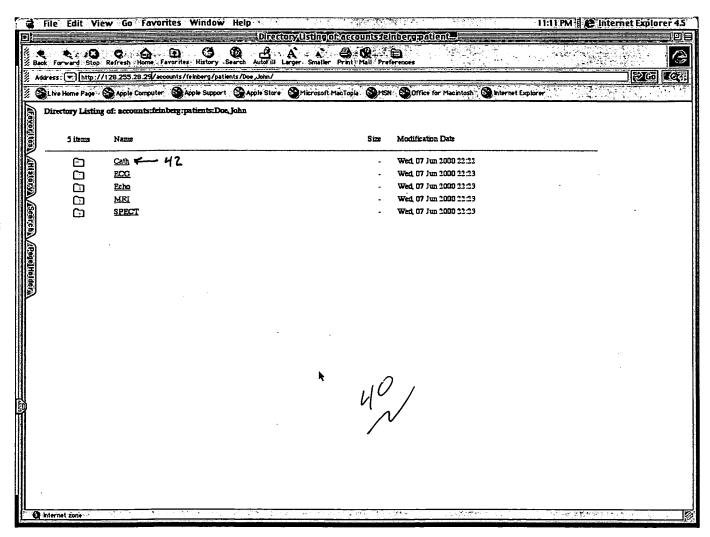
7030

COMPUTER LOCATED AT IP ADDRESS 10.1.1.0 SEARCHES FIELD, FINDS "123456789", AND TELLS USER'S BROWSER TO FORWARD THE REQUEST TO COMPUTER LOCATED AT IP ADDRESS 10.1.1.2

7040

COMPUTER LOCATED AT IP ADDRESS 10.1.1.2 RETURNS THE REQUESTED IMAGE DATA DIRECTLY TO USER

FIGURE 12 - PROCESSING USER REQUEST USING WORLD WIDE DATABASE



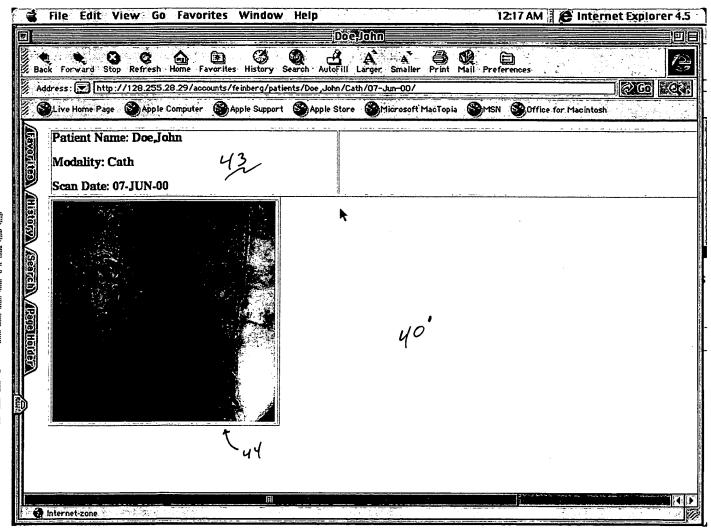


FIGURE 14

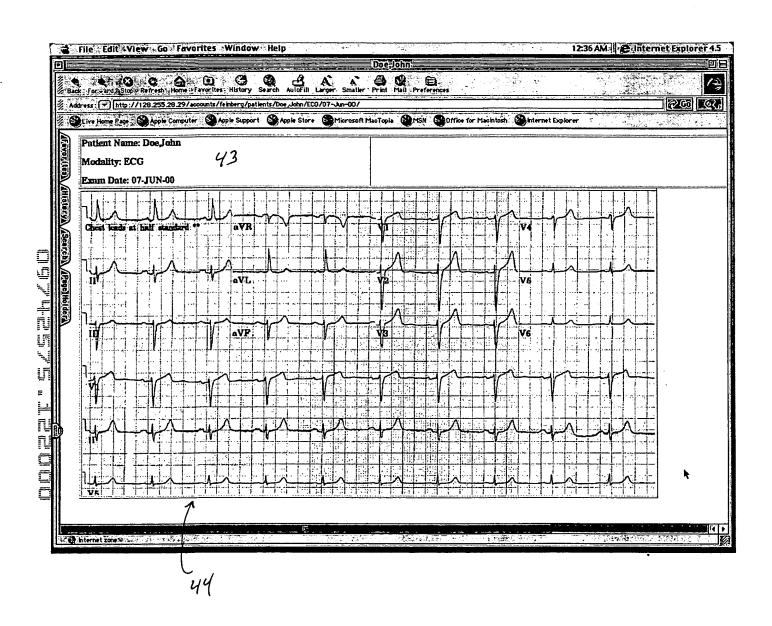


FIGURE 15

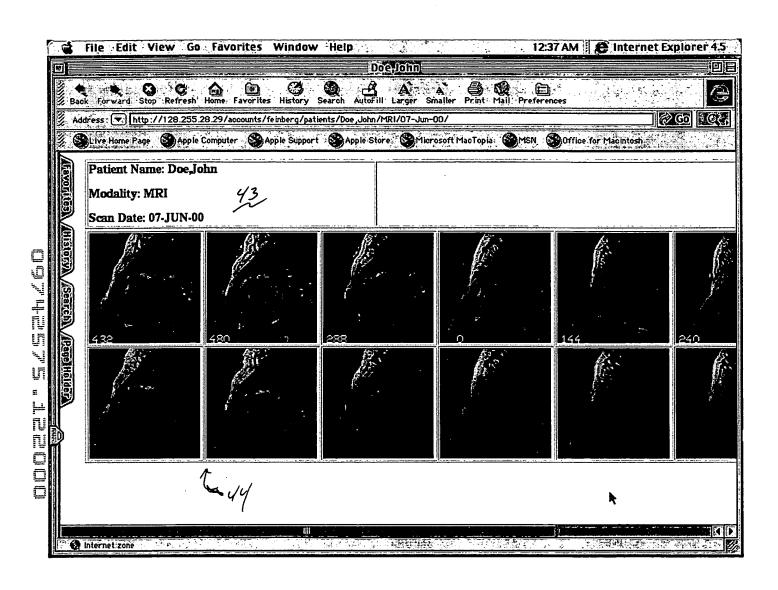


FIGURE 16

